

ABSTRACT OF THE DISCLOSURE

A method and an apparatus for determining mutual time difference between base station signals in an asynchronous code division multiplexing access (CDMA) system. The method comprises the steps of: measuring mutual time difference of signals transmitted between at least two base stations; determining all possible paths between said at least two base stations; and providing weights to the measured mutual time difference for said all possible paths. The apparatus comprises: a location measurement unit for measuring mutual time difference of signals transmitted between at least two base stations; a mobile user location center for receiving the mutual time difference of the signals measured by the location measurement unit, determining all possible paths between said at least two base stations, and providing weights to the measured mutual time difference for said all possible paths. The method and apparatus can determine a mutual time difference of signals transmitted from base stations even when the signals are blocked by a certain object and can improve the determination accuracy of the mutual time difference of base station signals.